

WHAT IS CLAIMED IS:

1. An image forming apparatus comprising:
a controller for issuing commands
representative of a plurality of kinds of
5 instruction;
an engine for executing image formation
according to the command;
a control portion for holding a condition
status indicating an internal condition of the engine
10 and a factor status indicating a factor of the
condition status, or the factor status and for
notifying, in response to the command, the condition
status and the factor status, or the factor status;
and
15 judgement means for judging whether to adjust
an image formation condition of the engine or not
according to the condition status and the factor
status, or the factor status.

20 2. An image forming apparatus according to
claim 1, wherein:
the control portion further holds a priority
status indicating a priority of the factor; and
the judgement means judges whether to adjust
25 the image formation condition of the engine or not
according to the condition status, the factor status,
and the priority status, or the factor status and the

priority status.

3. An image forming apparatus comprising:
a controller for issuing a plurality of
5 commands;
an engine for executing image formation
according to the command;
a control portion for holding a condition
status indicating an internal condition of the engine
10 and for notifying the controller of the condition
status in response to the command;
necessity judgement means for judging whether
to adjust an image formation condition of the engine
or not based on the condition status; and
15 adjustment means for adjusting the image
formation condition of the engine,
wherein the control portion holds a factor
status by which, when the necessity judgement means
judges that a necessity is admitted for an adjustment
20 of the image formation condition, whether or not the
necessity involves immediate adjustment is judged and
which indicates a factor of the condition status.

4. An image forming apparatus according to
25 claim 3, wherein:
the controller includes adjustment execution
judgement means for judging whether or not the

necessity involves the immediate adjustment based on the factor status; and

when the adjustment execution judgement means judges that the necessity involves the immediate
5 adjustment, the controller issues an adjustment execution command to the adjustment means.

5. An image forming apparatus according to claim 3,

10 wherein the control portion holds a priority status indicating a priority regarding the adjustment execution of the image formation condition according to each factor.

15 6. An image forming apparatus according to claim 4,

wherein the adjustment execution judgement means judges that the immediate adjustment is necessary when the priority of the factor regarding
20 the necessity is higher than a predetermined value.

7. An image forming apparatus according to claim 3,

wherein the image formation condition is
25 related to a density control of an image.

8. An image forming apparatus according to

claim 3,

wherein the image formation condition is related to a color component balance of a color image.

5 9. An image forming apparatus according to claim 3,

wherein the image formation condition is related to a color misregistration amount of a color image.

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10. An image forming apparatus according to claim 3,

wherein the image formation condition is related to a shift amount of drum phases in multiple
15 colors of a color image.

11. A control method for an image forming apparatus, comprising:

notifying a condition status indicating an
20 internal condition of an engine and a factor status indicating a factor of the condition status, or the factor status; and

judging whether to adjust an image formation condition of the engine or not according to the
25 notified condition status and factor status, or the notified factor status.

12. A control method for an image forming apparatus, comprising:

notifying a condition status indicating an internal condition of an engine, a factor status
5 indicating a factor of the condition status, and a priority status indicating a priority of the factor, or the factor status and the priority status; and

judging whether to adjust an image formation condition of the engine or not according to the
10 notified condition status, factor status, and priority status, or the notified factor status and priority status.

13. A control method for an image forming
15 apparatus, comprising:

issuing a plurality of commands using a controller;

notifying a condition status indicating an internal condition of an engine in response to the
20 command;

judging whether to adjust an image formation condition of the engine or not based on the condition status; and

notifying a factor status by which, when a
25 necessity is judged admissible for an adjustment of the image formation condition, whether or not the necessity involves immediate adjustment is judged and

which indicates a factor of the condition status.

14. A control method for an image forming apparatus according to claim 13, further comprising:

5 judging whether or not the necessity involves the immediate adjustment based on the factor status and executing the adjustment when the necessity is judged to involve the immediate adjustment.

10 15. A control method for an image forming apparatus according to claim 13, further comprising:

 notifying, when the necessity is judged admissible for the adjustment of the image formation condition, a priority status indicating a priority
15 regarding adjustment execution of the image formation condition according to each factor.

16. A control method for an image forming apparatus according to claim 14, further comprising:

20 judging that the immediate adjustment is necessary when the priority of the factor regarding the necessity is higher than a predetermined value.

17. A control method for an image forming
25 apparatus according to claim 15, wherein the image formation condition is related to a density control of an image.

18. A control method for an image forming apparatus according to claim 15, wherein the image formation condition is related to a color component balance of a color image.

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19. A control method for an image forming apparatus according to claim 15, wherein the image formation condition is related to a color misregistration amount of a color image.

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20. A control method for an image forming apparatus according to claim 15, wherein the image formation condition is related to a shift amount of drum phases in multiple colors of a color image.